SCIENCE ADVISORY BOARD

Jane Lubchenco, Ph.D.

Under Secretary of Commerce for Oceans & Atmosphere NOAA Administrator National Oceanic and Atmospheric Administration July 16, 2012



NOAA-wide:

Leadership Changes, iPhones & iPads

Dr. Becky Blank
Acting Secretary Of
Commerce

Dr. Jainey

Bavishi

Director of

External Affairs

Dr. David Titley
Deputy Under
Secretary
For Operations

Margaret Spring
Principal Deputy

Principal Deputy Under Secretary for Operations

Renee Stone Chief of Staff



Ciaran Clayton

Director of

Communications



Laura Furgione
Acting AA for
NWS



Joanne
Benzuli-Crane
Acting Chief
Financial Officer











RIO +20

DAS for International Fisheries Russell Smith led the NOAA delegation

- US Center Side Event: Sustainable Fisheries
- GEF Side Event: Tuna Fisheries
- Global Oceans Forum Event: Fisheries panel
- US Center Side Event: Disaster Risk Reduction
- UNEP marine debris panel

OAR/PMEL's Richard Feely

Oceans Day: Panel on OA & Climate Change

International Coordinating Office for Ocean Acidification

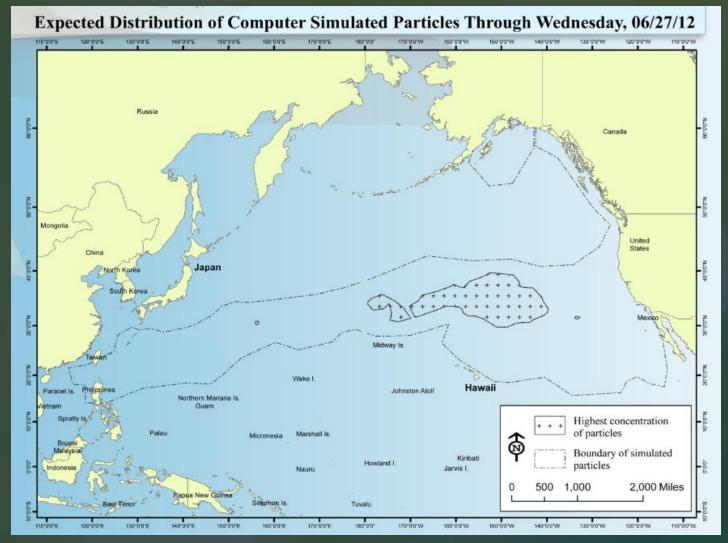
- IHT op-ed on OA by Lubchenco and Sir John Beddington
- Announcement of Int'l Monitoring Coordination Ctr: Monaco

Line and Staff Offices and Cross-line Programs:

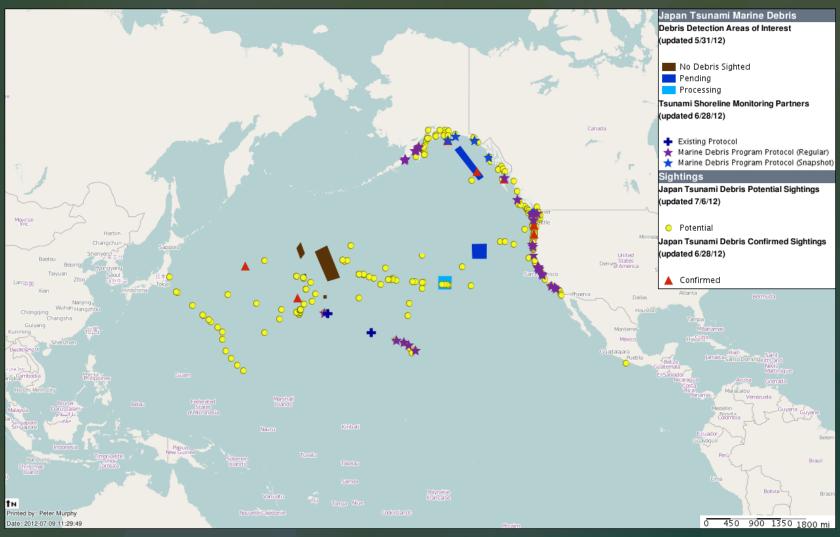
Accomplishments & Challenges



Marine Debris GNOME Model Nos



MARINE DEBRIS SIGHTINGS NOS



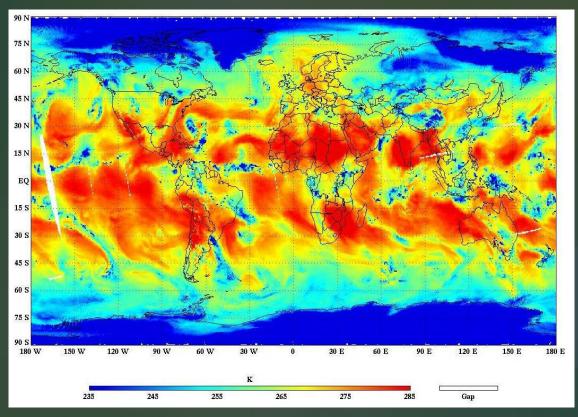
MARINE DEBRIS DETECTION NOS



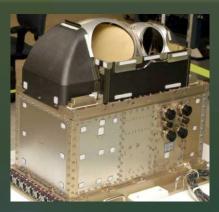
CHALLENGE Communicating Risks Accurately

SUOMI NPP OPERATIONS

NESDIS



ATMS channel 18 data, which measures water vapor in the lower atmosphere



ATMS Instrument
Advanced Technology
Microwave Sounder

CHALLENGE

Developing Satellite Architecture in Declining Budget Environment

EMBLEM, FINACES & FUTURE NWS

Emblem Licensing



Social Science Research to Build a Weather Ready Nation

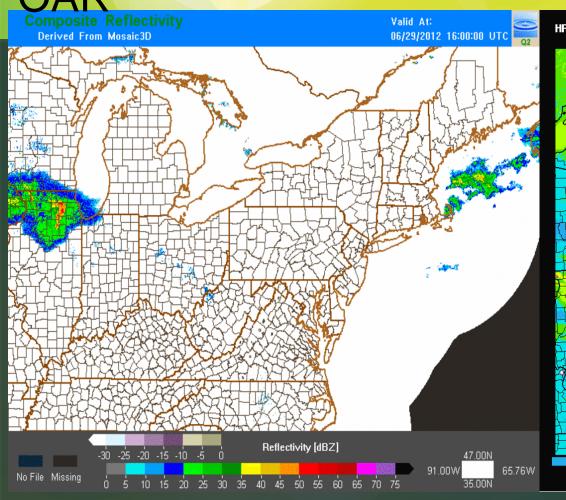


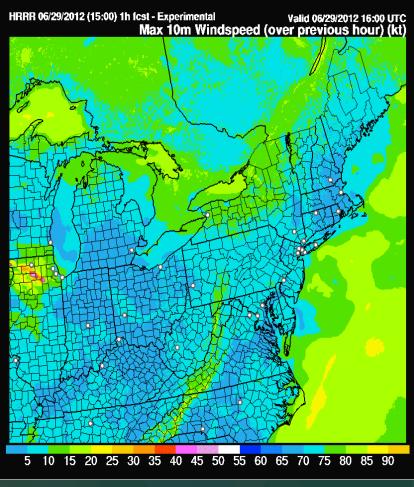
CHALLENGE

Post Reprogramming: Charting the Future of the NWS

Observed Radar Reflectivity



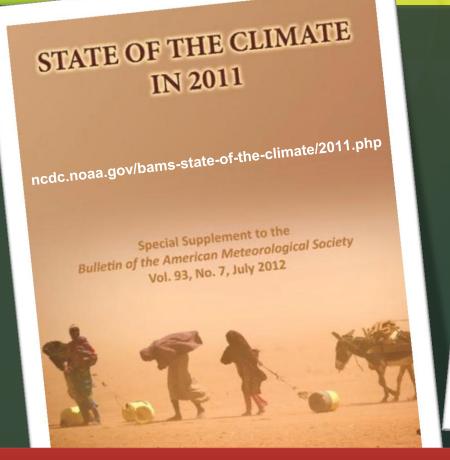


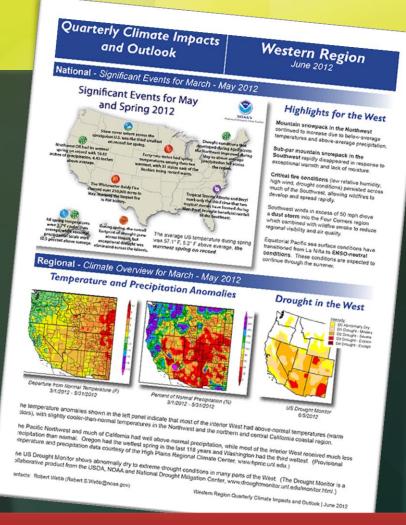


STATE OF THE CLIMATE REPORT &

NIDIS PRODUCTS

Climate

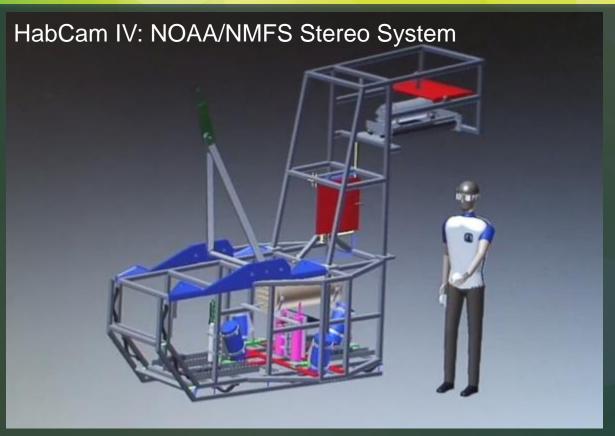


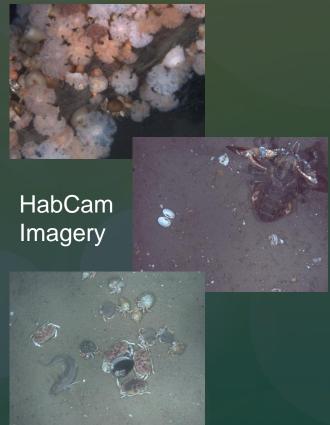


CHALLENGE

Addressing the Societal Issues without a Climate Line Office

ADVANCED SAMPLING TECHNOLOGIES NMFS





CHALLENGE

Improving and Funding Stock Assessments

NEW RESEARCH VESSELS & RISING COSTS OMAO

Reuben Lasker





CHALLENGE

Rising ship maintenance and fuel costs

NextGen Standards & Recognition

Education

Video: Why NGSS?





www.nextgenscience.org/next-generation-science-standards

CHALLENGE

Recognition as 'core' to NOAA's mission

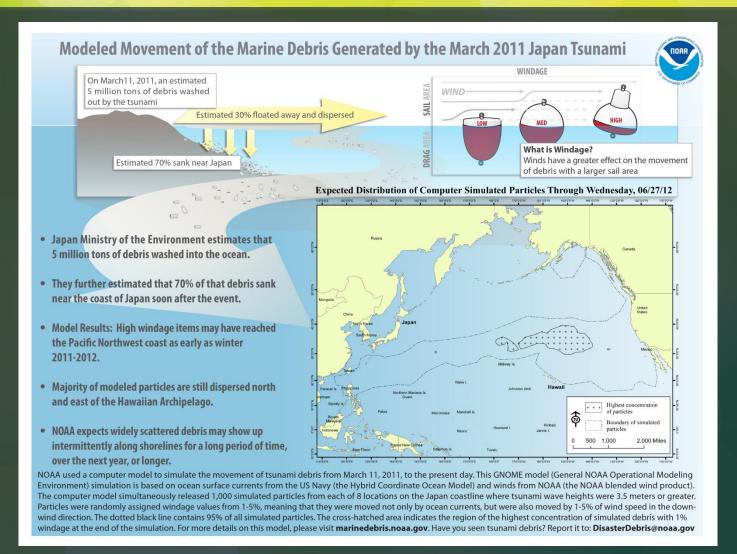
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Marine Debris GNOME Model



High Resolution Rapid Refresh

A new weather prediction model being tested at:

Earth System Research Lab/ Global Systems Division

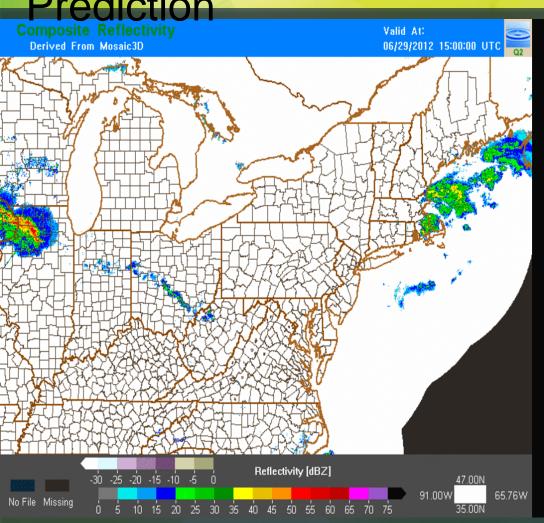
HRRR forecast skill for Mid-Atlantic Derecho case of 29-30 June 2012

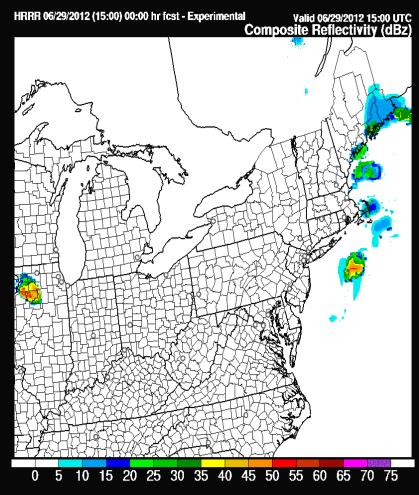
Steve Weygandt and Stan Benjamin

Observed Radar









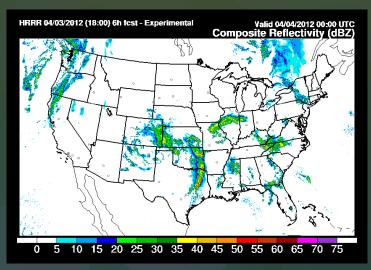
High Resolution Rapid Refresh Model run on ESRL



MODELS & DATA OAR

Suomi Lights @ Night Image After Derecho Event





High Resolution Rapid Refresh Model Example

CHALLENGE

Adequate data from observing systems

ESRL/GSD's HRRR model predicted a 65 knot gust in the DC area 12 hours in advance.

